



Dart Hawkesbury
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

D5612-041
Job Sheet 168541



Part No: D5612-041

Job Qty: 1 ea

Part Name: Adapter Wrench



Part Weight: 0 lbs

Job Created: 11/16/17

Due Date: 11/30/17

Type: R+D

Note: D5612 REV:A3 IPP REV:A 17.11.15 NEW ISSUE DD VERF:JFS

Ship Via:

PRELIMINARY ISSUE
Status: Scheduled
Priority: Medium

Job Tracking No:

Created By: Mario Poulin

Description:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup hrs	Run Hrs	Workcenter / Supplier	Lead Time	
90	Start up Operation	1 Ea		11/29/17	0.00	0.00	Start Up Large Fab-1		CL
100	Large Fab	1 pcs		11/30/17	0.00	0.25	Large Fab 1		CL
110	QC	1 pcs		11/30/17	0.00	0.00	QC9		18-01-26
120	QC	1 pcs		11/30/17	0.00	0.00	QC5		18-01-26
130	Packaging	1 pcs		11/30/17	0.00	0.00	Packaging3-1		18-01-26
140	QC21-SA	1 Ea		11/30/17	0.00	0.00	QC21		18-01-26

Part Op
Descriptions: 100 - 1- STITCH WELD SOCKET TO WRENCH AS PER DWG

Job Allocations

Operation	Component Part	Required	Inventory	Allocated	Std Qty
90-Start up Operation	D5612-1	1	0	0	0
	D5612-3	1	0	0	0

Part Specifications

Specifications could not be found.

Plex 11/16/17 10:44 AM dart.poulin.mario

Handwritten: K017-1044-01

POSITIVE RECALL

EFFECTIVE _____ AUTH _____

RELEASED CL 9.89 DATE 18-01-26

@ Rev A
per ECN 17.783

DQA: _____ Date: _____

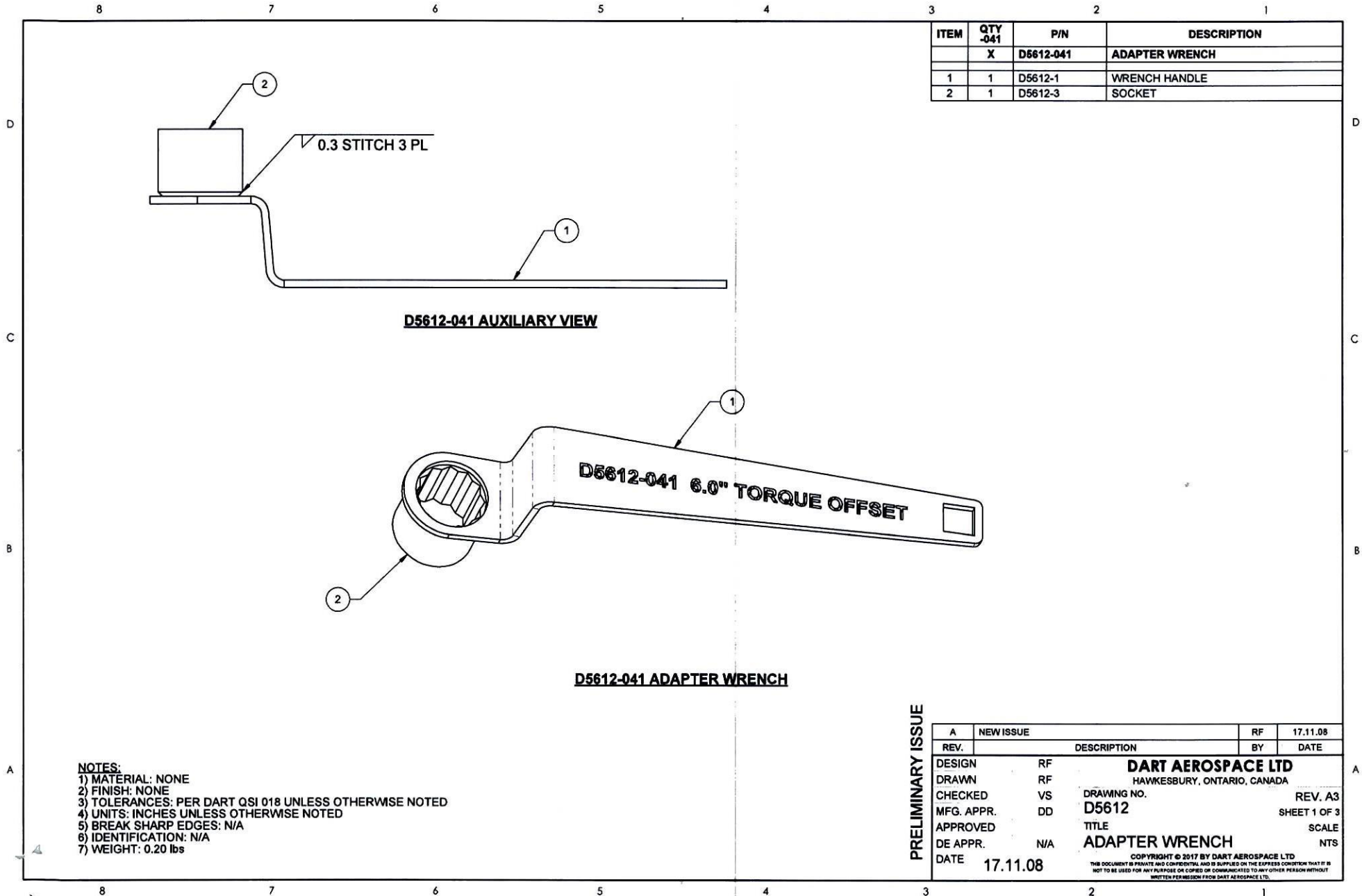
WORK ORDER NON-CONFORMANCE / UPDATE



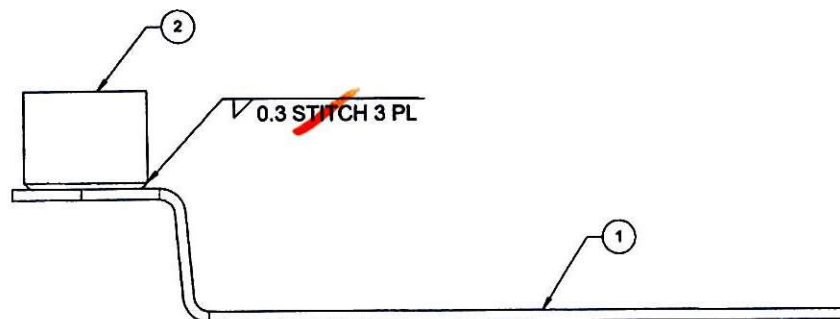
QA Closed: _____ Date: _____

Work Order update only ☐

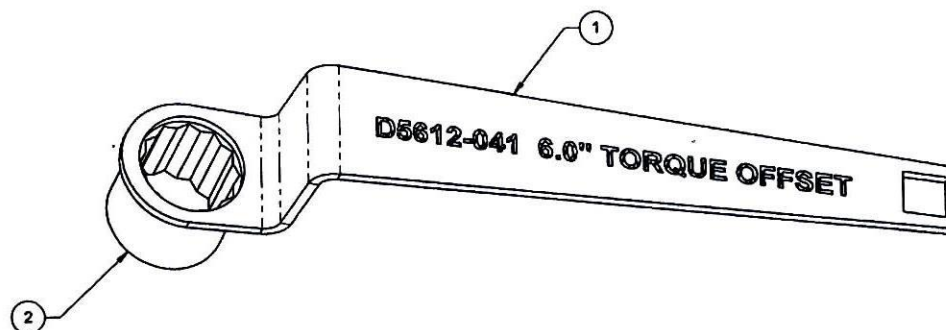
Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ C Machining ☐ Thermoforming ☐ Large Fab ☐ C					
Date : _____		Step #: _____		QTY Effective : _____					
Description Work Order Deviation Dart Aerospace Ltd. 1270 Aberdeen Street Hawkesbury, ON K64 1K7 CANADA TEL.: 1 613 632-5200 Email: sales@dartaero.com www.dartaerospace.com									
Root Cause <table border="0" style="width: 100%;"> <tr> <td style="width: 50%;"> Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ </td> <td style="width: 50%;"> No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐ </td> </tr> </table>		Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	FAULT C <table border="0" style="width: 100%;"> <tr> <td style="width: 50%;"> Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ </td> <td style="width: 50%;"> Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqu ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unc ☐ Drill Holes ☐ </td> </tr> </table>				Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqu ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unc ☐ Drill Holes ☐
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐								
Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqu ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unc ☐ Drill Holes ☐								
OTHER : _____		DART AEROSPACE S021285 Adapter Wrench D5612-041 Start up Operation PART NO: Revision: Operation: Change No:							
		☐ Misaligned/off center		☐ Turning Sequence					



ITEM	QTY	P/N	DESCRIPTION
	X	D5612-041	ADAPTER WRENCH
1	1	D5612-1	WRENCH HANDLE
2	1	D5612-3	SOCKET



D5612-041 AUXILIARY VIEW



D5612-041 ADAPTER WRENCH

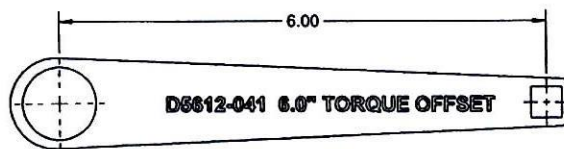
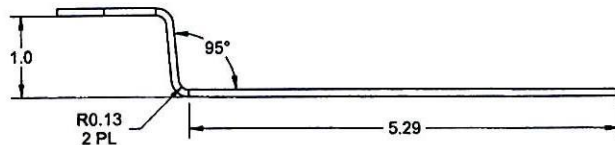
NOTES:

- 1) MATERIAL: NONE
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 0.20 lbs

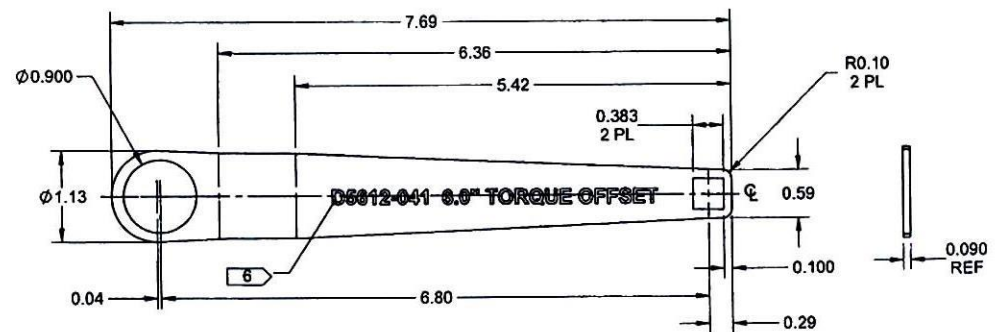
RELEASED
2018-01-08
EAW R-713

APPROVED

A	NEW ISSUE	RF	17.11.08
REV.	DESCRIPTION	BY	DATE
DESIGN	RF	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	RF		
CHECKED	VS	DRAWING NO.	REV. A
MFG. APPR.	DD	D5612	SHEET 1 OF 3
APPROVED	HS	TITLE	SCALE
DE APPR.	NA	ADAPTER WRENCH	NTS
DATE	17.11.08	COPYRIGHT © 2017 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	



D5612-1 WRENCH HANDLE
(MAKE FROM D5612-1F)



D5612-1F FLAT PATTERN

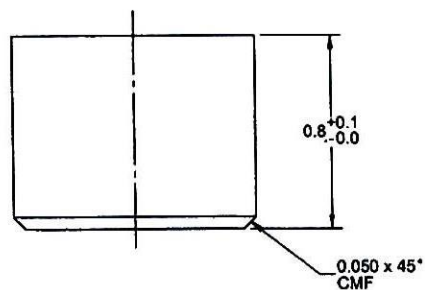
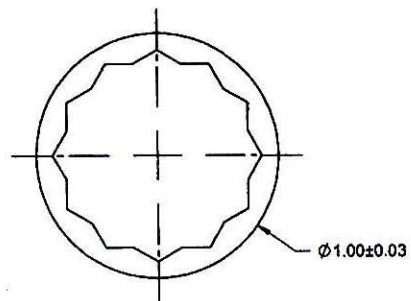
NOTES:

- 1) MATERIAL: AISI 304/316 STAINLESS SHEET, 0.090 THK, ANNEALED
PER MIL-S-5059 AMS 5513 (304) OR AMS 5524 (316)
OR ASTM A240 OR ASME SA240
REF DART SPEC M304S13GA
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: ENGRAVE D5612-041 6.0" TORQUE OFFSET AS SHOWN
- 7) WEIGHT: 0.15 lbs
- 8) ALL NON DIMENSIONED FEATURES CONTROLLED BY D5612-1.DXF REV. A

RELEASED
2018-01-08

APPROVED

DESIGN	RF	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	RF	DRAWING NO.	REV. A
CHECKED	VS	D5612	SHEET 2 OF 3
MFG. APPR.	DD	TITLE	SCALE
APPROVED	HS	ADAPTER WRENCH	NTS
DE APPR.	N/A	COPYRIGHT © 2017 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	
DATE	17.11.08		



D5612-3 SOCKET

NOTES:

- 1) MATERIAL: MAKE FROM 19 mm DEEP 12 POINT SOCKET
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: NONE
- 7) WEIGHT: 0.06 lbs

RELEASED
ON 2018-01-08

APPROVED

DESIGN	RF	DART AEROSPACE LTD	
DRAWN	RF	HAWKESBURY, ONTARIO, CANADA	
CHECKED	VS	DRAWING NO.	REV. A
MFG. APPR.	DD	D5612	SHEET 3 OF 3
APPROVED	HS	TITLE	SCALE
DE APPR.	N/A	ADAPTER WRENCH	NTS
DATE	17.11.08	COPYRIGHT © 2017 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR DISSEMINATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	